Drew Technologies, Inc.
IMCLEAN

Technician Bar Code Reading Issues Within BAR-OIS

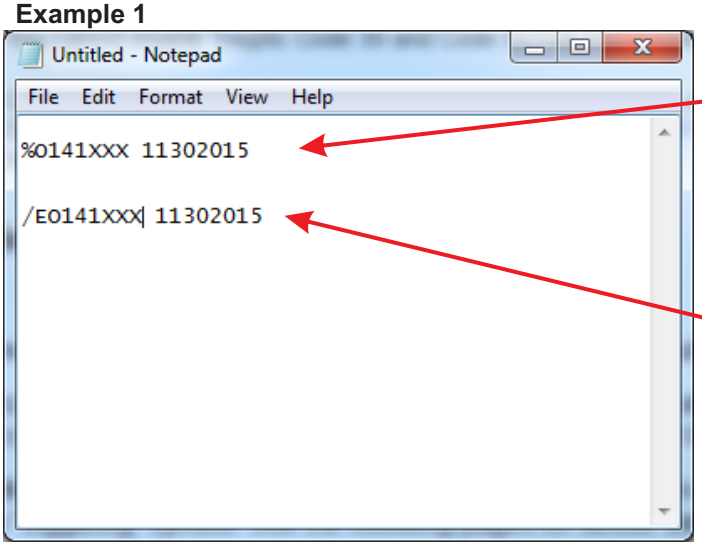
Some users are reporting issues when attempting to read their technician badges with their bar code readers. BAR for the OIS program allows shops to source their own bar code scanners and most of the time most brands of scanners will work fine out of the box. If you get an error message when scanning your badge that says “Badge in Unexpected Format” you may need to disable Code 39 Full ASCII.

A quick way to test this is to open up notepad in windows, click inside the box and scan your badge. If you get a % value instead of a /E then you should dig out your scanner manual and scan the configuration bar code that disables Code 39 Full ASCII. The example below shows a technician badge scanned both ways. To the right is are sample configuration bar codes for popular Motorola LS and LI bar code readers that will allow you to enable and disable Code 39 Full ASCII to test your scanner.

On the following pages we have supplied configuration pages for some of the most popular scanners we have seen come through our support lines. If you have another brand of scanner or you cannot read any bar codes at all we suggest you consult your scanner manufacturer for technical support.

IMPORTANT: You may need to print out the appropriate sheets to scan them with your scanner.

Example 1



Error.
Needs Code 39 Full ASCII Disabled

Fixed.
After scanning Disable Code 39 Full ASCII

Configuration Code -(most Motorola) (see other pages for other scanner brand Code 39 Full ASCII disable codes)

Enable Code 39 Full ASCII

*Disable Code 39 Full ASCII (00h)

Try the barcode below both ways to test

+D+R+E+W+T+E+C+H

Bar code will read
+D+R+E+W+T+E+C+H
with Code 39 Full ASCII Disabled
GOOD

Bar code will read
drewtech
with Code 39 Full ASCII Enabled
BAD

Honeywell

Voyager 9520/40
Voyager GS9590
Eclipse 5145

Quick Start Guide

Aller à www.honeywellaidc.com pour le français.
Vai a www.honeywellaidc.com per l'italiano.
Gehe zu www.honeywellaidc.com für Deutsch.
Ir a www.honeywellaidc.com para español.
Para Português, acesse www.honeywellaidc.com.br.
Перейти на русскоязычный сайт www.honeywellaidc.com.
日本語： www.honeywellaidc.com をご覧ください。
如要到中国 www.honeywellaidc.com（简体）。
한글 www.honeywellaidc.com 로 이동합니다 .

VG-ECL-QS Rev C
6/12

Expand UPC-E to 12 Digits expands the UPC-E code to the 12 digit, UPC-A format.

Expand UPC-E to 12 Digits

Don't Expand UPC-E to 12 Digits

When **Code 39 Full ASCII On** is scanned, certain character pairs within the bar code symbol will be interpreted as a single character. For example: $V will be decoded as the ASCII character SYN, and /C will be decoded as the ASCII character #.

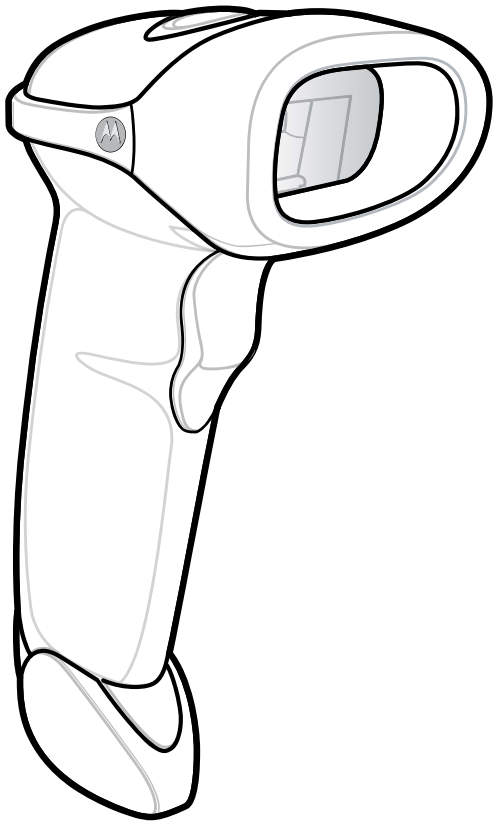
Code 39 Full ASCII On

Code 39 Full ASCII Off

Honeywell MS9520

Symbol LS2208

Product Reference Guide



Convert All Bar Codes to Code 39

By default, the Wand Emulation interface sends data to the attached host in the same symbology that was decoded. This can present a problem for customers with older systems that do not recognize some newer symbologies (for example, GS1 DataBar).

Enable this parameter to ignore the decoded symbology, and output the data as Code 39. Lowercase characters in the original data stream transmit as uppercase. This also allows ADF formatting.

Enable **Ignore Unknown Characters** to replace any characters that do not have a corresponding character in the Code 39 symbology with a space.

If you disable **Ignore Unknown Characters**, when the scanner encounters characters that do not have a corresponding character, it emits an error beep and discards the data.

✓ ***NOTE*** ADF Note: By default, the Wand Emulation interface does not allow ADF rules to process scanned data. Enabling this parameter allows ADF rules to process scanned data. See *Chapter 14, Advanced Data Formatting*.

Enable Convert to Code 39 for Wand Host

***Disable Convert to Code 39 for Wand Host**

Convert Code 39 to Full ASCII

By default, a space replaces any characters that do not have a corresponding character in the Code 39 symbology set. Enable this parameter to encode the data sent to the Wand interface in Code 39 Full ASCII. In order to do this, the host must be able to interpret Code 39 Full ASCII data.

This setting applies only if you enabled **Convert to Code 39**.

***Disable Code 39 Full ASCII Conversion**

Symbol LS2208

Enable Code 39 Full ASCII Conversion

QuickScan™ Mobile

Reference Manual

CODE SELECTION

CODE 39 FAMILY

disables the family

① Read the desired family code

◆ **Standard Code 39**

Datalogic Quickscan M2

Full ASCII Code 39

② Read a check digit selection

CHECK DIGIT TABLE

◆ no check digit control

check digit control
and transmission

check digit control
without transmission

LI4278
PRODUCT REFERENCE GUIDE

Code 39 Full ASCII Conversion

Parameter # 17

Code 39 Full ASCII is a variant of Code 39 which pairs characters to encode the full ASCII character set. To enable or disable Code 39 Full ASCII, scan the appropriate bar code below.

Enable Code 39 Full ASCII
(01h)

Motorola LI4278

***Disable Code 39 Full ASCII**
(00h)

NOTE You cannot enable Trioptic Code 39 and Code 39 Full ASCII simultaneously.

Code 39 Full ASCII to Full ASCII Correlation is host-dependent, and is therefore described in the ASCII Character Set Table for the appropriate interface. See the *ASCII Character Set for RS-232 on page 7-19* or the *ASCII Character Set for USB on page 8-18*.

Code 39 Buffering - Scan & Store

Parameter # 113

This feature allows the linear imager scanner to accumulate data from multiple Code 39 symbols.

Selecting the Scan and Store option (Buffer Code 39) temporarily buffers all Code 39 symbols having a leading space as a first character for later transmission. The leading space is not buffered.

Decoding a Code 39 symbol with no leading space transmits in sequence all buffered data in a first-in first-out format, plus the “triggering” symbol. See the following pages for further details.

Select **Do Not Buffer Code 39** to transmit all decoded Code 39 symbols immediately without storing them in the buffer.

Wasp WDI4500

User's Manual

Transmit Code 39 Check Digit

Scan a bar code below to transmit Code 39 data with or without the check digit.

Transmit Code 39 Check Digit (Enable)

***Do Not Transmit Code 39 Check Digit (Disable)**

✓ ***NOTE*** Code 39 Check Digit Verification must be enabled for this parameter to function.

Code 39 Full ASCII Conversion

Code 39 Full ASCII is a variant of Code 39 which pairs characters to encode the full ASCII character set. To enable or disable Code 39 Full ASCII, scan the appropriate bar code below.

Enable Code 39 Full ASCII

Wasp WDI-4500

***Disable Code 39 Full ASCII**

✓ ***NOTE*** Trioptic Code 39 and Code 39 Full ASCII cannot be enabled simultaneously.

Code 39 Full ASCII to Full ASCII Correlation is host-dependent, and is therefore described in the ASCII Character Set Table for the appropriate interface.

BARCODE TECHNOLOGIES

WDI4600

1D 2D Digital Scanner USB

Product Reference Guide

Code 39 Start/Stop Character Transmission

Enable this option to enable/disable transmission of Code 39 start and stop characters.

DEFAULT

Code 39 Start/Stop Character Transmission = Don't Transmit

Code 39 Start/Stop Character Transmission = Transmit

Code 39 Full ASCII

Enables/disables the translation of Code 39 characters to Code 39 full-ASCII characters.

DEFAULT

Code 39 Full ASCII = Disable

Code 39 Full ASCII = Enable

```
Wasp WDI-4600
```

unitech

MS840

Hand Held Scanner

User's Manual

D.7 Code 39 / I 2 of 5 / S 2 of 5 / Code 32 / EAN128

1. Enter Group 7

Group Default 2.

8. 0

3. 1

2

4. 3

4

5

5. 6

7

6. 8

7. 9

:(/Z)

Code 39: 0/**1**--Disable/**Enable.**
2/3--**Full ASCII**/ Standard.
4--Check Digit (CD) Calculate & Send.
5--CD Calculate, not send. **6 --CD not Calculate.**
7/**8** -- Send/**No Send** Start/Stop
9/: -- Double labels decoding **Disable**/Enable
0 - 48 -- Min length **0** / Max length **48**

F1

I 2 of 5 (ITF): 0/**1**--Disable/**Enable**
2/**3**--Fix Length On/**Off** (by first three reads)
4--Check Digit (CD) Calculate & Send
5--CD Calculate, not send. **6--CD not Calculate**
7--First Digit Suppressed. 8--Last Digit Suppressed
9 -- Not Suppressed
2 - 64 -- Min length **10** / Max length **64**

F2

S 25(IATA) / China Postal Code(Toshiba Code):
0/1--**Disable**/Enable
2/3 -- Fix Length **On**/Off (by first three reads)
4--Check Digit (CD) Calculate & Send
5--CD Calculate, not send. **6--CD not Calculate**
1 - 48 -- Min length **4** / Max length **48**

F3

Code 32(Italian pharmacy):
0/1 -- **Disable**/Enable
2/3 -- Leading Character **Send** / No Send
4/5 -- Tailing Character **Send** / No Send

F4

Telepen:
0/1 – **Disable**/Enable **2**/3 – **Standard**/Numeric Set

F5

UCC/EAN 128: 0/**1**—disable/**Enable**
2/3—**ID disable**/Enable **4**/5-**ISBT disable**/Enable
Note: If EAN128 be disabled, the EAN128 labels will be decoded as Code 128

F6

Define the EAN128 Fields separator:
Scan a ASCII code in full ASCII code chart to select a new Fields Separator

F7

Define a separator for double labels:
Scan a ASCII code in full ASCII code chart to select t a new definition of Func1

F8

Min Length MM

Max Length NN

Exit 9.

unitech
because we care

Wireless Scanner

- MS380 -

User's Manual

Version 1.7

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• Tel: + 886 2 89121122 • Fax: +886 2 89121810 • website: www.ute.com

Code 39 / Full ASCII Code Group 4

.G009$

Disable

.G001$

Full ASCII Code 39 Enable

.G004$

Check Digit(CD) Calculate & Send

.G003$

CD not Calculate

.G015$

No Send

.G006$

Min Length (1)

.G008$

Enable

.G002$

Full ASCII Code 39 Disable

.G005$

CD Calculate, Not Send.

.G014$

Send

.G017$

Double labels decoding off

.G018$

DL Separator for Double Code 39

.G007$

Max Length (48)

Unitech electronics co., ltd.
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• Tel: + 886 2 89121122 • Fax: +886 2 89121810 • website: www.ute.com

ESP WIRED CODE READERS

FUZZYSCAN BARCODE IMAGER

Programming Manual

International Edition, Rev. D5

cino

Code 39 Full ASCII
Disabled by default

FuzzyScan Programming Manual

Symbology Reading Control

♦ Code 39/Code 32 Setting ♦

PROGRAM

F_DEFAULT

Family Code Selection	P.C	Parameter Selection	Option Code
Code 39 Family Setting	SS	Disable Code 39	0
	SS	Enable Code 39◆	1
	SS	Select Standard Code 39 as primary format ◆	2
	SS	Select Full ASCII Code 39 as primary format	3
	SS	Select Code 32 (PARAF, Italian Pharmaceutical) as primary format	4
	SS	Disable start/stop symbol transmission ◆	5
	SS	Enable start/stop symbol transmission	6
	SS	Disable Code 32 leading A transmission ◆	7
	SS	Enable Code 32 leading A transmission	8
	SS	Disable MOD 43 check digit verification ◆	9
	SS	Enable MOD 43 check digit verification	A
	SS	Disable check digit transmission ◆	B
	SS	Enable check digit transmission	C
	SS	Disable Code 39 buffering ◆	D
	SS	Enable Code 39 buffering	E
Trioptic Code 39 Setting	SS	Disable Trioptic Code 39 ◆	0
	SS	Enable Trioptic Code 39	1
Code 39 Min. Length	SS	Default (01) ◆	**FIN**
	MS	01-Maximum	**(2 digits)**
		Scan 2 digits from the option code chart in Appendix; then FuzzyScan will terminate this selection automatically.	
Code 39 Max. Length	SS	Default (98) ◆	**FIN**
	MS	98-Minimum	**(2 digits)**
		Scan 2 digits from the option code chart in Appendix; then FuzzyScan will terminate this selection automatically.	

▪ Trioptic Code 39 and Code 39 Full ASCII cannot be enabled simultaneously.

Option Codes

0

5

A

F

1

6

B

2

7

C

3

8

D

4

9

E

FIN (Finish)

Abort

END (Exit)

System Commands

PROGRAM
(Enter Programming Mode)

FIN (Finish)

END
(Exit Programming Mode)

Save User Default

User Default

System Information List
(SYSLIST)

PowerTool Host Link

Factory Default

Master Default

- **Factory Default:** After scanning" Factory Default" command, all parameters will be returned to factory default value.
- **Master Default:** After scanning "Master Default" command, the scanner will remain the pre-set parameters of **Host Interface Selection**, **Keyboard Interface Control** (except Record Suffix; Preamble; Postamble), **Serial Interface Control** (except Record Suffix; Preamble; Postamble), and **Wand/Laser Emulation Control**, the rest of parameters will be returned to default value.
- **User Default:** After scanning" Save User Default" command, all current parameters will be stored to the flash memory. Once you change the parameter and would like to return to previous setting, please scan "User Default".

ESP WIRELESS CODE READERS

Honeywell

Xenon™ 1900/1902

Area-Imaging Scanner

User's Guide

Full ASCII

If Full ASCII Code 39 decoding is enabled, certain character pairs within the bar code symbol will be interpreted as a single character. For example: $V will be decoded as the ASCII character SYN, and /C will be decoded as the ASCII character #. *Default = Off*.

NUL	%U	DLE	$P	SP	SPACE	0	0	@	%V	P	P	‘	%W	p	+P
SOH	$A	DC1	$Q	!	/A	1	1	A	A	Q	Q	a	+A	q	+Q
STX	$B	DC2	$R	“	/B	2	2	B	B	R	R	b	+B	r	+R
ETX	$C	DC3	$S	#	/C	3	3	C	C	S	S	c	+C	s	+S
EOT	$D	DC4	$T	$	/D	4	4	D	D	T	T	d	+D	t	+T
ENQ	$E	NAK	$U	%	/E	5	5	E	E	U	U	e	+E	u	+U
ACK	$F	SYN	$V	&	/F	6	6	F	F	V	V	f	+F	v	+V
BEL	$G	ETB	$W	‘	/G	7	7	G	G	W	W	g	+G	w	+W
BS	$H	CAN	$X	(	/H	8	8	H	H	X	X	h	+H	x	+X
HT	$I	EM	$Y	)	/I	9	9	I	I	Y	Y	i	+I	y	+Y
LF	$J	SUB	$Z	*	/J	:	/Z	J	J	Z	Z	j	+J	z	+Z
VT	$K	ESC	%A	+	/K	;	%F	K	K	[	%K	k	+K	{	%P
FF	$L	FS	%B	,	/L	<	%G	L	L	\	%L	l	+L	l	%Q
CR	$M	GS	%C	-	-	=	%H	M	M	]	%M	m	+M	}	%R
SO	$N	RS	%D	.	.	>	%I	N	N	^	%N	n	+N	~	%S
SI	$O	US	%E	/	/O	?	%J	O	O	_	%O	o	+O	DEL	%T

Character pairs /M and /N decode as a minus sign and period respectively. Character pairs /P through /Y decode as 0 through 9.

Full ASCII On

*** Full ASCII Off**

Code 39 Code Page

Code pages define the mapping of character codes to characters. If the data received does not display with the proper characters, it may be because the bar code being scanned was created using a code page that is different from the one the host program is expecting. If this is the case, scan the bar code below, select the code page with which the bar codes were created (see Code Page Mapping of Printed Barcodes on page A-6),